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Primary-switched STEP POWER power supply for DIN rail mounting, input: 1-phase, output: 24 V DC/2.5 A

Product Description

STEP POWER power supplies for installation distributors

The STEP POWER power supply range was developed especially for building automation. The low idling losses and high degree of efficiency ensure maximum energy efficiency. They allow flexible use and can be snapped onto the DIN rail or screwed onto an even surface.

Why buy this product

- Reliable power supply thanks to high MTBF (mean time between failures) of more than 500,000 hours and U/I characteristic curve
- Flexible mounting by simply snapping onto the DIN rail or screwing onto a level surface
- Energy savings thanks to maximum energy efficiency and incredibly low idling losses



Key Commercial Data

Packing unit	1 pc
GTIN	4 046356 163224
Weight per Piece (excluding packing)	270.0 g
Custom tariff number	85044030
Country of origin	Germany

Technical data

Dimensions

Width	72 mm
Height	90 mm
Depth	61 mm

Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-25 °C 70 °C (> 55° C derating : 2.5%/K)
Ambient temperature (storage/transport)	-40 °C 85 °C
Max. permissible relative humidity (operation)	≤ 95 % (at 25 °C, non-condensing)



Technical data

Ambient conditions

Noise immunity	EN 61000-6-2:2005
Input data	
Nominal input voltage range	100 V AC 240 V AC

Nominal input voltage range	100 V AC 240 V AC
Input voltage range	85 V AC 264 V AC
	95 V DC 250 V DC
AC frequency range	45 Hz 65 Hz
Frequency range DC	0 Hz
Inrush surge current	< 15 A (typical)
Power failure bypass	> 20 ms (120 V AC)
	> 100 ms (230 V AC)
Input fuse	3.15 A (slow-blow, internal)
Choice of suitable circuit breakers	6 A 16 A (Characteristics B, C, D, K)
Type of protection	Transient surge protection
Protective circuit/component	Varistor

Output data

Nominal output voltage	24 V DC ±1 %
Setting range of the output voltage (U _{Set})	22.5 V DC 29.5 V DC (> 24 V DC, constant capacity restricted)
Nennausgangsstrom (I _N)	2.5 A (-25°C 55°C)
	2.75 A (-25 °C 40 °C permanent)
Output current I _{max}	4.4 A
Derating	55 °C 70 °C (2.5%/K)
Connection in parallel	Yes, for redundancy and increased capacity
Connection in series	Yes
Control deviation	< 1 % (change in load, static 10 % 90 %)
	< 2 % (change in load, dynamic 10 % 90 %)
	< 0.1 % (change in input voltage ±10 %)
Residual ripple	< 80 mV _{PP} (20 MHz)
Output power	60 W
Typical response time	< 0.5 s
Peak switching voltages nominal load	< 40 mV _{PP} (20 MHz)
Maximum power dissipation in no-load condition	< 0.7 W
Power loss nominal load max.	9.9 W

General

Net weight	0.27 kg
Operating voltage display	Green LED
Efficiency	> 86 % (for 230 V AC and nominal values)
Insulation voltage input/output	4 kV AC (type test)
	3.75 kV AC (routine test)
Protection class	II (in closed control cabinet)



Technical data

General

	> 1061000 h (40°C)
Mounting position	horizontal DIN rail NS 35, EN 60715
Assembly instructions	Alignable: 0 mm horizontally, 30 mm vertically

Connection data, input

Connection method	Screw connection
Conductor cross section solid min.	0.2 mm²
Conductor cross section solid max.	2.5 mm ²
Conductor cross section flexible min.	0.2 mm²
Conductor cross section flexible max.	2.5 mm ²
Conductor cross section AWG min.	24
Conductor cross section AWG max.	12
Stripping length	6.5 mm
Screw thread	M3

Connection data, output

Connection method	Screw connection
Conductor cross section solid min.	0.2 mm²
Conductor cross section solid max.	2.5 mm²
Conductor cross section flexible min.	0.2 mm²
Conductor cross section flexible max.	2.5 mm²
Conductor cross section AWG min.	24
Conductor cross section AWG max.	12
Stripping length	6.5 mm
Screw thread	M3

Standards and Regulations

Conformance with EMC Directive 2004/108/EC
30g in each direction, according to IEC 60068-2-27
EN 61000-6-2:2005
CUL
EN 61000-4-3
EN 61000-4-4
EN 61000-4-6
EN 60204-1
IEC 60950-1/VDE 0805 (SELV)
EN 50178/VDE 0160 (PELV)
IEC 60950-1 (SELV) and EN 60204-1 (PELV)
DIN VDE 0100-410
EN 50178
EN 61000-3-2



Technical data

Standards and Regulations

Shipbuilding approval	Germanischer Lloyd (EMC 1), ABS, LR, RINA, NK, DNV, BV
UL approvals	UL/C-UL listed UL 508
	UL/C-UL Recognized UL 60950
	NEC Class 2 as per UL 1310
	UL ANSI/ISA-12.12.01 Class I, Division 2, Groups A, B, C, D (Hazardous Location)
Vibration (operation)	< 15 Hz, amplitude ±2.5 mm (according to IEC 60068-2-6)
Low Voltage Directive	Conformance with LV directive 2006/95/EC
Information technology equipment - safety (CB scheme)	CB Scheme
Rail applications	EN 50121-4

Classifications

eCl@ss

eCl@ss 4.0	27040702
eCl@ss 4.1	27040702
eCl@ss 5.0	27242213
eCl@ss 5.1	27242213
eCl@ss 6.0	27049002
eCl@ss 7.0	27049002
eCl@ss 8.0	27049002
eCl@ss 9.0	27040701

ETIM

ETIM 2.0	EC001039
ETIM 3.0	EC001039
ETIM 4.0	EC002540
ETIM 5.0	EC002540

UNSPSC

UNSPSC 6.01	30211502
UNSPSC 7.0901	39121004
UNSPSC 11	39121004
UNSPSC 12.01	39121004
UNSPSC 13.2	39121004

Approvals

Approvals



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Approvals
UL Recognized / cUL Recognized / UL Listed / cUL Listed / LR / GL / BV / DNV / NK / RINA / BSH / IECEE CB Scheme / EAC / EAC / UL Recognized / cUL Recognized / cULus Recognized / cULus Listed
Ex Approvals
UL Listed / cUL Listed / cULus Listed
Approvals submitted
Approval details
UL Recognized \$1
cUL Recognized
UL Listed (II)
cUL Listed • • • • • • • • • • • • • • • • • • •
LR
GL
BV
DNV
NK
Fa
RINA

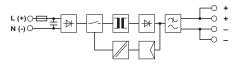


Approvals

BSH
IECEE CB Scheme CB
EAC
EAC
UL Recognized
cUL Recognized
cULus Recognized CSA US
cULus Listed ***

Drawings

Block diagram



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